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APPLICATION NO. FILING DATE		LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 7706
09/890,168		0/30/2001	Tomio Echigo	954-010444-U	
2512	7590	09/25/2003			
PERMAN &		1	EXAMINER		
425 POST RC FAIRFIELD,		24	FOULADI SEMNANI, FARANAK		
				ART UNIT	PAPER NUMBER
		•		2672	
				DATE MAILED: 09/25/2003	6

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Α	pplicant(s)			
1		09/890,168	E	CHIGO ET AL.			
Office Action Su	ımmary	Examiner	Α	rt Unit			
		Faranak Fouladi	-	672			
The MAILING DATE of Period for Reply	this communication a	ppears on the cover	sheet with the con	respondence address			
A SHORTENED STATUTOR'	Y PERIOD FOR REP	LY IS SET TO EXF	PIRE 3 MONTH(S)	FROM			
THE MAILING DATE OF THIS  - Extensions of time may be available un after SIX (6) MONTHS from the mailing  - If the period for reply specified above is  - If NO period for reply is specified above  - Failure to reply within the set or extende  - Any reply received by the Office later the earned patent term adjustment. See 37	der the provisions of 37 CFR 1 date of this communication. less than thirty (30) days, a re, the maximum statutory perio de period for reply will, by statu an three months after the mail	.136(a). In no event, hower ply within the statutory min d will apply and will expire ate, cause the application to	imum of thirty (30) days wi SIX (6) MONTHS from the become ABANDONED(	ill be considered timely. mailing date of this communication. 35 U.S.C. § 133).			
1) Responsive to commu	nication(s) filed on 30	October 2001 .					
2a)☐ This action is FINAL.	2b)⊠ ¯	This action is non-fi	nal.				
3) Since this application i				ecution as to the merits is 3 O.G. 213.			
Disposition of Claims							
4)⊠ Claim(s) <u>1-9</u> is/are pen	ding in the application	n.					
4a) Of the above claim(s	s) is/are withdr	awn from consider	ation.				
5) Claim(s) is/are a	llowed.						
6)⊠ Claim(s) <u>1-9</u> is/are rejec	cted.						
7) Claim(s) is/are o	bjected to.						
8) Claim(s) are sub	ject to restriction and	or election require	ment.				
Application Papers							
9) The specification is obje	<del>-</del>						
10)⊠ The drawing(s) filed on 3							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration i	<u>-</u>		lion.				
,—		zxammer.					
Priority under 35 U.S.C. §§ 119							
13)⊠ Acknowledgment is ma		gn priority under 3:	0.5.C. § 119(a)-(	a) or (t).			
a) All b) Some * c)			No. 2				
·	of the priority docume			Ma			
2. Certified copies of	, ,			<del></del>			
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14) Acknowledgment is made	e of a claim for dome	stic priority under 3	5 U.S.C. § 119(e)	(to a provisional application).			
a) ☐ The translation of the 15)☐ Acknowledgment is mad		• • •					
Attachment(s)		· •					
Notice of References Cited (PTO-8     Notice of Draftsperson's Patent Dra     Information Disclosure Statement(s	awing Review (PTO-948)	4)		PTO-413) Paper No(s) ent Application (PTO-152)			
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)	Office A	Action Summary	Pa	art of Paper No. 5			

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#### **DETAILED ACTION**

- 1. This action is responsive to communications: application, filed on 10/30/2001.
- 2. Claims 1-9 are pending in the case, with claims 1-9 being independent.
- The present title of the application is "METHOD AND DEVICE FOR DESCRIBING VIDEO CONTENTS" (as originally filed).

### **Drawings**

4. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: "112", "113", "114", "121", "122", "213", "215", "216", "217", "218", "219", "223", "226", "227", "228", "229", "235", "236", "237", "238", "239", "246", "247", "248", "249", "259", "310", "330", "402", "411", "421", "440", "462", "464", "472" and "550".

A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

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#### Double Patenting

5. Applicant is advised that should claim 5 be found allowable, claim 6 and 7 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

#### Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

6. Claim 8 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Usefulness under the patent eligibility standard requires significant functionality to be present to satisfy the useful result aspect of the practical application requirement. See Arrhythmia, 958 F.2d at 1057, 22 USPQ2d at 1036. Merely claiming nonfunctional descriptive material stored in a computer- readable medium does not make the invention eligible for patenting MPEP section 2106 II A. The claimed invention as a whole must produce a "useful, concrete and tangible" result to have a practical application.

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## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 1-7 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Dimitrova et al. [Rx for semantic video database retrieval, Proceedings of the second ACM international conference on Multimedia, Pages: 219 226, Year of publication 1994].
- 8. Regarding independent claim 1, "a description means for contents of motion picture, said means comprising of:
  - (a) means for setting reference plane;
  - (b) means for describing each object on said motion picture by positioning on said reference plane and predefined type of actions; and
  - (c) means for describing each scene by using said means for describing each object." Dimitrova disclose means for setting reference plane in sec. 3.1 page 220 page 221. Dimitrova also disclose describing each object by positioning on said reference plane and predefined type of actions in first paragraph of sec. 3.2 page 222; and further he disclose means for describing each scene by using said means for describing each object in third paragraph of sec. 3.3 page 223.

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9. Regarding independent claim 2, " a search means for contents of motion picture, said means comprising of:

- (a) means for setting reference plane;
- (b) means for describing each object on said motion picture by positioning on said reference plane and predefined type of actions; and
- (c) means for describing each scene by using said means for describing each object; and
- (d) means for searching motion picture by using said means for describing each object or said means for describing each scene." Parts (a), (b) and (c) are similar to claim 1 and therefore are rejected under the same rationale. Regarding part (d), Dimitrova disclose in first paragraph of sec. 3.3 page 223.
- 10. Regarding independent claim 3, "a description method for motion picture, said method comprising the steps of:
  - (a) determining reference plane which represents information of object positions included in said motion picture;
  - (b) representing changes over time of each object on said reference plane as a trajectory;
  - (c) setting a description unit based on predefined type of actions of each object by using changes in shape of each object so as to assign actions of each object as each behavioral section; and

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(d) defining each scene by plural objects." Dimitrova disclose means for setting reference plane in sec. 3.1 page 220 – page 221, and Dimitrova also discloses parts (b), (c), and (d) in sec. 3.3 (the whole section) page 223.

- 11. Regarding independent claim 4, "a search method for motion picture, said method comprising the steps of:
  - (a) setting reference plane which represents information of object positions included in said motion picture;
  - (b) representing changes over time of each object on said reference plane as a trajectory;
  - (c) setting a description unit based on predefined type of actions of each object by using changes in shape of each object so as to assign actions of each object as each behavioral section; and
  - (d) defining each scene by plural objects; and
  - (e) searching a specific scene by using said actions of each object or said scene." Parts (a), (b), (c) and (d) are similar to claim 3 and therefore are rejected under the same rationale. Regarding part (e), Dimitrova disclose in 2<sup>nd</sup> col. Lines 20-23 of sec. 4 page 224.
- 12. Regarding independent claim 5, "a description method for motion picture, said method comprising the steps of:
  - (a) determining reference plane from said motion picture;
  - (b) cutting a region map, an object trajectory ID, an action ID and a camera parameter from said motion picture;

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- (c) creating description of actions by each object from said region map, said object trajectory ID, said action ID and said camera parameter; and (d) creating description of scenes by using said description of actions by each object. Dimitrova disclose part (a) in sec. 3.1 page 220 - page 221 and disclose part (b), (c), and (d) in 1st col. of sec. 4 page 224 - line 24 of 2nd col. page 224 (same page).
- 13. Regarding independent claim 6, "a description method for motion picture, said method comprising the steps of:
  - (a) determining reference plane from said motion picture;
  - (b) cutting a region map, an object trajectory ID, an action ID and a camera parameter from said motion picture;
  - (c) creating description of actions by each object from said region map, said object trajectory ID, said action ID and said camera parameter; and
  - (d) creating description of scenes by using said description of actions by each object." Dimitrova disclose part (a) in sec. 3.1 page 220 - page 221 and disclose part (b), (c), and (d) in 1st col. of sec. 4 page 224 - line 24 of 2nd col. page 224 (same page).
- 14. Regarding independent claim 7, "a description method for motion picture, said method comprising the steps of:
  - (a) cutting a region map, an object trajectory ID, an action ID and a camera parameter from said motion picture;

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(b) creating description of actions by each object from said region map, said object trajectory ID, said action ID and said camera parameter; and (c) creating description of scenes by using said description of actions by each object." Dimitrova disclose part (a), (b), and (c) in 1<sup>st</sup> col. of sec. 4 page 224 – line 24 of 2<sup>nd</sup> col. page 224 (same page).

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15. Claim 9 recite a computer readable storage medium which has recorded program containing executable instructions executing the method of claim 3. It is inherent to have a medium configured to store or transport computer readable code in a computer system. For example compact disc has been included and used in the computer systems since 1990s or magnetic data storage devices have been used since 1980s. Also Dimitrova discloses a software application in sec. 5 lines 38-46 page 226.

#### Conclusion

- 16. Any this communication or earlier communications from the examiner should inquiry concerning be directed to **Faranak Fouladi** whose telephone number is **703-305-3223.** The examiner can normally be reached on Mon-Fri from 8:00-4:30.
- 17. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reach at 703-305-4713.
- 18. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, DC. 20231

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Or faxed to: 703-872-9314 (for Technology Center 2600 only)

19. Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, sixth-floor (Receptionist).

20. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is 703-872-9306.

Faranak Fouladi-Semnani Patent Examiner Art Unit 2672

> MICHAEL RAZAVI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

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